

Form PTO-1449 (modified)		Atty. Docket No. SBI-064-DIV	Serial No. Unknown
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Jeffrey W. Moehlenbruck and John P. Ranieri	
		Filing Date: Concurrently Herewith	Group: Unknown
U.S. Patent Documents See Pages 1-4	Foreign Patent Documents See Page 4	Other Art See Pages 4-8	

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
NT	A1	6,419,702	07-2002	Ferree	623	17.11	
	A2	6,352,557	03-2002	Ferree	623	17.11	
	A3	6,344,058	02-2002	Ferree	623	17.11	
	A4	6,340,369	01-2002	Ferree	623	17.11	
	A5	6,290,692	09-2001	Klima <i>et al.</i>	604	524	
	A6	6,273,876	08-2001	Klima <i>et al.</i>	604	264	
	A7	6,245,107	06-2001	Ferree	623	17	
	A8	6,203,732	03-2001	Clubb <i>et al.</i>	264	81	
	A9	6,132,461	10-2001	Thompson	623	1.15	
	A10	6,132,460	10-2001	Thompson	623	1.15	
	A11	6,110,164	08-2000	Vidlund	604	542	
	A12	6,107,004	08-2000	Donadio III	430	320	
	A13	6,080,579	06-2000	Hanley Jr. <i>et al.</i>	435	366	
	A14	6,051,648	04-2000	Rhee <i>et al.</i>	525	54.1	
	A15	6,033,394	03-2000	Vidlund <i>et al.</i>	604	524	
	A16	6,027,863	02-2000	Donadio III	430	320	
	A17	6,024,754	02-2000	Engelson	606	213	
	A18	6,022,343	02-2000	Johnson <i>et al.</i>	604	526	
	A19	5,976,186	11-1999	Bao <i>et al.</i>	623	17	
	A20	5,976,174	11-1999	Ruiz	606	213	
	A21	5,964,807	10-1999	Gan <i>et al.</i>	623	17	
	A22	5,962,325	10-1999	Naughton <i>et al.</i>	435	395	

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DATE CONSIDERED: 08.29.06

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<i>W7</i>	A23	5,944,754	08-1999	Vacanti	623	11	
	A24	5,919,235	07-1999	Husson <i>et al.</i>	623	17	
	A25	5,916,225	06-1999	Kugel	606	151	
	A26	5,911,752	06-1999	Dustrude <i>et al.</i>	623	1	
	A27	5,879,366	03-1999	Shaw <i>et al.</i>	606	213	
	A28	5,874,397	02-1999	Schimmel <i>et al.</i>	510	531	
	A29	5,865,846	02-1999	Bryan <i>et al.</i>	623	17	
	A30	5,854,397	12-1998	Mechanic	520	356	
	A31	5,827,328	10-1998	Buttermann	623	17	
	A32	5,827,325	10-1998	Buttermann	623	17	
	A33	5,824,093	10-1998	Ray <i>et al.</i>	623	17	
	A34	5,817,153	10-1998	Pendl <i>et al.</i>	8	94.11	
	A35	5,815,904	10-1998	Clubb <i>et al.</i>	29	418	
	A36	5,800,550	09-1998	Sertich	623	17	
	A37	5,800,549	09-1998	Bao <i>et al.</i>	623	17	
	A38	5,800,537	09-1998	Bell	623	11	
	A39	5,795,353	08-1998	Felt	623	18	
	A40	5,776,142	07-1998	Gunderson	606	108	
	A41	5,741,429	04-1998	Donadio	615	8	
	A42	5,733,337	03-1998	Carr Jr. <i>et al.</i>	623	11	
	A43	5,716,416	02-1998	Lin	623	17	
	A44	5,681,310	10-1997	Yuam <i>et al.</i>	606	61	

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
MT.	A45	5,645,597	07-1997	Krapiva	623	17	
	A46	5,573,520	11-1996	Schwartz <i>et al.</i>	604	282	
	A47	5,562,736	10-1996	Ray <i>et al.</i>	623	17	
	A48	5,545,229	08-1996	Parsons <i>et al.</i>	623	17	
	A49	5,540,715	07-1996	Katsaros <i>et al.</i>	606	213	
	A50	5,514,180	05-1996	Heggeness <i>et al.</i>	623	17	
	A51	5,478,739	12-1995	Slivka <i>et al.</i>	435	240.23	
	A52	5,464,439	11-1995	Gendler	623	16	
	A53	5,437,288	08-1995	Schwartz <i>et al.</i>	128	772	
	A54	5,425,772	06-1995	Brantigan	623	17	
	A55	5,390,683	02-1995	Pisharodi	128	898	
	A56	5,370,660	12-1994	Weinstein <i>et al.</i>	606	215	
	A57	5,342,394	08-1994	Matsuno <i>et al.</i>	606	213	
	A58	5,314,477	05-1994	Marnay	623	17	
	A59	5,304,194	04-1994	Chee <i>et al.</i>	606	191	
	A60	5,259,043	11-1993	Stone	623	66	
	A61	5,258,043	11-1993	Stone	623	66	
	A62	5,192,326	03-1993	Bao <i>et al.</i>	623	17	
	A63	5,171,278	12-1992	Pisharodi	623	17	
	A64	5,147,374	09-1992	Fernandez	606	151	
	A65	5,108,438	04-1992	Stone	623	17	
	A66	5,100,422	03-1992	Berguer <i>et al.</i>	606	151	

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NT	A67	5,047,055	09-1991	Bao <i>et al.</i>	623	17	
	A68	5,015,255	05-1991	Kuslich	623	17	
	A69	4,932,696	06-1990	White	292	336.3	
	A70	4,904,260	02-1990	Ray <i>et al.</i>	623	17	
	A71	4,834,757	05-1989	Brantigan	623	17	
	A72	4,801,299	01-1989	Brendel <i>et al.</i>	623	1	
	A73	4,772,287	09-1988	Ray <i>et al.</i>	623	17	
	A74	4,663,358	05-1987	Hyon <i>et al.</i>	521	64	
	A75	4,413,359	11-1983	Akiama <i>et al.</i>	3	1	

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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
NT	B1	EP 0411925 A2	08-1990	Europe	C08H	1/06	Yes
	B2	WO 91/16867	05-1991	PCT	A61F	2/44	Yes
	B3	WO 94/25080	04-1994	PCT	A61L	27/00	Yes
	B4	WO 00/62832	04-2000	PCT	A61L	27/16	Yes
	B5	WO 00/15274	03-2000	PCT	A61L	27/36	Yes

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
NT	C1	Aguiar <i>et al.</i> , "Notochordal Cells Interact with Nucleus Pulposus Cells: Regulation of Proteoglycan Synthesis," <i>Exp. Cell Res.</i> , 246:129-37, 1999.

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NT.	C2	Ahlgren <i>et al.</i> , "Effect of Annular Repair on the Healing Strength of the Intervertebral Disc: A Sheep Model," <i>Spine</i> , 25:2165-70, 2000.
	C3	Antoniou <i>et al.</i> , "The Human Lumbar Endplate: Evidence of Changes in Biosynthesis and Denaturation of the Extracellular Matrix With Growth, Maturation, Aging, and Degeneration," <i>Spine</i> , 21:1153-61, 1996.
	C4	Antoniou <i>et al.</i> , "The Human Lumbar Intervertebral Disc: Evidence for Changes in the Biosynthesis and Denaturation of the Extracellular Matrix with Growth, Maturation, Aging and Degeneration," <i>J. Clin. Invest.</i> , 98:996-1003, 1996.
	C5	Ariga <i>et al.</i> , "The Relationship Between Apoptosis of Endplate Chondrocytes and Aging and Degeneration of the Intervertebral Disc," <i>Spine</i> , 26:2414-20, 2001.
	C6	Bao <i>et al.</i> , "The artificial disc: theory, design and materials," <i>Biomaterials</i> , 17:1157-67, 1996.
	C7	Buckwalter, "Spine Update: Aging and Degeneration of the Human Intervertebral Disc," <i>Spine</i> , 20:1307-14, 1995.
	C8	Chelberg <i>et al.</i> , "Identification of heterogeneous cell populations in normal human intervertebral disc," <i>J. Anat.</i> , 186:43-53, 1995.
	C9	Chiba <i>et al.</i> , "A New Culture System to Study the Metabolism of the Intervertebral Disc <i>In Vitro</i> ," <i>Spine</i> , 23:1821-27, 1998.
	C10	Cinotti <i>et al.</i> , "Results of Disc Prosthesis After a Minimum Follow-up Period of 2 Years," <i>Spine</i> , 21:995-1000, 1996.
	C11	Duance, "Changes in Collagen Cross-Linking in Degenerative Disc Disease and Scoliosis," <i>Spine</i> , 23:2545-51, 1998.
	C12	Enker <i>et al.</i> , "Artificial Disc Replacement: Preliminary Report with a 3-year Minimum Follow-up," <i>Spine</i> , 18:1061-70, 1993.
	C13	Frick <i>et al.</i> , "Lumbar Intervertebral Disc Transfer: A Canine Study," <i>Spine</i> , 19:1826-34, 1994.
	C14	Griffith <i>et al.</i> , "A Multicenter Retrospective Study of the Clinical Results of the LINK SB Charite Intervertebral Prosthesis: The Initial European Experience," <i>Spine</i> , 19:1842-49, 1994.
	C15	Gruber, "Anti-Apoptotic Effects of IGF-1 and PDGF on Human Intervertebral Disc Cells <i>In Vitro</i> ," <i>Spine</i> , 25:2153-57, 2000.

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Exam. Init.	Ref. Des.	Citation
MIT.	C16	Gu <i>et al.</i> , "The Anisotropic Hydraulic Permeability of Human Lumbar Anulus Fibrosus: Influence of Age, Degeneration, Direction, and Water Content," <i>Spine</i> , 24:2449-55, 1999.
	C17	Hadjipavlou <i>et al.</i> , "The Effect of Chymopapain on Low Back Pain," <i>Orthopedic Review</i> , 21:733-38, 1992.
	C18	Horner <i>et al.</i> , "2001 Volvo Award Winner in Basic Science Studies: Effect of Nutrient Supply on the Viability of Cells From the Nucleus Pulposus of the Intervertebral Disc," <i>Spine</i> , 26:2543-49, 2001.
	C19	Jahnke <i>et al.</i> , "Proteoglycans of the Human Intervertebral disc: Electrophoretic heterogeneity of the Aggregating Proteoglycans of the Nucleus Pulposus," <i>Biochem. J.</i> , 251:347-56, 1988.
	C20	Kappa <i>et al.</i> , "Collagen Synthesis and Types I, II, IV, and VI Collagens in an Animal Model of Disc Degeneration," <i>Spine</i> , 20:59-67, 1995.
	C21	Kawakami <i>et al.</i> , "Pathomechanism of Pain-Related Behavior Produced by Allografts of Intervertebral Disc in the Rat," <i>Spine</i> , 21:2101-07, 1996.
	C22	Lee <i>et al.</i> , "New Use of a Three Dimensional Pellet Culture System for Human Intervertebral Disc Cells: Initial Characterization and Potential Use of Tissue Engineering," <i>Spine</i> , 26:2316-22, 2001.
	C23	Madawi <i>et al.</i> , "Biocompatible Osteoconductive Polymer Versus Iliac Graft: A Prospective Comparative Study for the Evaluation of Fusion Pattern After Anterior Cervical Discectomy," <i>Spine</i> , 21:2123-29, 1996.
	C24	Martz <i>et al.</i> , "Materials and Design of Spinal Implants - A Review," <i>Applied Biomaterials</i> , pp. 267-88, Sept. 1997.
	C25	Matsuzaki <i>et al.</i> , "Allografting Intervertebral Discs in Dogs: A Possible Clinical Application," <i>Spine</i> , 21:178-83, 1996.
	C26	Meade <i>et al.</i> , "Immunogenicity of Collagenous Implants," <i>Biomaterials</i> , 11:176-80, 1990.
	C27	Melrose <i>et al.</i> , "Proteoglycan Hetrogeneity in the Normal Adult Ovine Intervertebral Disc," <i>Matrix Biology</i> , 14:61-75, 1994.
	C28	Moore <i>et al.</i> , "Biocompatibility and Immunologic Properties of Pericardial Tissue Stabilized by Dye-Mediated Photooxidation," <i>J. Heart Valve Dis.</i> , 6:307-15, 1997.

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NT	C29	Nehrer <i>et al.</i> , "Matrix Collagen Type and Pore Size Influence Behavior of Seeded Canine Chondrocytes," <i>Biomaterials</i> , 18:769-76, 1997.
	C30	Nishida <i>et al.</i> , "Adenovirus-Mediated Gene Transfer to Nucleus Pulposus Cells," <i>Spine</i> , 23:2437-42, 1998.
	C31	Nishida <i>et al.</i> , "Modulation of the Biologic Activity of the Rabbit Intervertebral Disc by Gene Therapy: an <i>In Vitro</i> Study of Adenovirus-Mediated Transfer of the Human Transforming Growth Factor β 1 Encoding Gene," <i>Spine</i> , 24:2419-25, 1999.
	C32	Nishimura <i>et al.</i> , "Percutaneous Reinsertion of the Nucleus Pulposus: An Experimental Study," <i>Spine</i> , 23:1531-38, 1998.
	C33	Oegema <i>et al.</i> , "Aggregated Proteoglycan Synthesis in Organ Cultures of Human Nucleus Pulposus," <i>J. Biol. Chem.</i> , 254:10579-81, 1979.
	C34	Okuma <i>et al.</i> , "Reinsertion of Stimulated Nucleus Pulposus Cells Retards Intervertebral Disc Degeneration: an <i>In Vitro</i> Experimental Study," <i>J. Orthopedic Research</i> , 18:988-97, 2000.
	C35	Olmarker <i>et al.</i> , "Ultrastructural Changes in Spinal Nerve Roots Induced by Autologous Nucleus Pulposus," <i>Spine</i> , 21:411-14, 1996.
	C36	Pokharna <i>et al.</i> , "Collagen Crosslinks in Human Lumbar Intervertebral Disc Aging," <i>Spine</i> , 23:1645-48, 1998.
	C37	Roberts <i>et al.</i> , "Transport Properties of the Human Cartilage Endplate in Relation to its Composition and Calcification," <i>Spine</i> , 21:415-20, 1996.
	C38	Sasaki <i>et al.</i> , "Effects of Chondroitinase ABC on Intradiscal Pressure in Sheep: an <i>In Vitro</i> Study," <i>Spine</i> , 26:463-68, 2001.
	C39	Schollmeier <i>et al.</i> , "Observations on Fiber-Forming Collagens in the Anulus Fibrosus," <i>Spine</i> , 25:2736-41, 2000.
	C40	Skaggs <i>et al.</i> , "Regional Variation in Tensile Properties and Biochemical Composition of the Human Lumbar Anulus Fibrosus," <i>Spine</i> , 19:1310-19, 1994.
	C41	Stevens <i>et al.</i> , "Biological Changes in the Annulus Fibrosus in Patients with Low-Back Pain," <i>Spine</i> , 7:223-33, 1982.

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<i>nc</i>	C42	Sumida <i>et al.</i> , "Serial Changes in the Rate of Proteoglycan Synthesis After Chemonucleolysis of Rabbit Intervertebral Discs," <i>Spine</i> , 24:1066-70, 1999.
<i>J</i>	C43	Urban <i>et al.</i> , "Chemistry of the Intervertebral Disc in Relation to Functional Requirements," <i>Grieves Modern Manual Therapy</i> , pp. 163-75, 1994.
<i>J</i>	C44	Wehling <i>et al.</i> , "Transfer of Genes to Chondrocytic Cells of the Lumbar Spine: Proposal for a Treatment Strategy of Spinal Disorders by Local Gene Therapy," <i>Spine</i> , 22:1092-97, 1997.
<i>✓</i>	C45	Wittenberg <i>et al.</i> , "Five-Year Results From Chemonucleolysis With Chymopapain or Collagenase: A Prospective Randomized Study," <i>Spine</i> , 26:1835-41, 2001.

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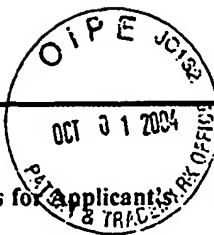
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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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 Atty. Docket No.
2103.013882/KDG

 Serial No.
10/812,268

List of Patents and Publications for Applicant's

Applicants

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1615

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DT	A76	5,733,994	03/31/1998	Koepff et al.	527	207	11/26/1996
	A77						
	A78						
	A79						
	A80						

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
DT	B6	WO01/76654	10/18/2001	PCT			
	B7						
	B8						

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
DT	C46	PCT/US2004/003034 International Search Report (July 22, 2004)
	C47	Alini et al., <i>Eur. Spine J.</i> 11:S215-S220 (2002)
	C48	
	C49	
	C50	

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2013.013882Serial No.
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dt	A77	2003/0236574	12-2003	Bittman <i>et al.</i>	623	23.63	03-11-2003
	A78	6,582,471 B1	06-2003	Bittmann <i>et al.</i>	623	23.63	08-12-1998
	A79	6,514,514 B1	02-2003	Atkinson <i>et al.</i>	424	423	02-16-1999
	A80	6,511,958	01-2003	Atkinson <i>et al.</i>	514	2	02-16-2000
	A81	2002/0040004	04-2002	Benedict <i>et al.</i>	514	21	12-22-2000
	A82	6,372,257 B1	04-2002	Marchosky	424	488	02-29-2000
	A83	2002/0009789	01-2002	Hanyu <i>et al.</i>	435	189	03-19-2001
	A84	6,299,650	10-2001	Van Blitterswijk	623	23.63	07-21-2000
	A85	6,054,122	04-2000	MacPhee <i>et al.</i>	424	94.4	06-07-1995
	A86	6,042,610	03-2000	Li <i>et al.</i>	623	20	02-24-1998
	A87	5,902,785	05-1999	Hattersley <i>et al.</i>	514	2	
	A88	5,707,962	01-1998	Chen <i>et al.</i>	514	12	
	A89	5,681,353	10-1997	Li <i>et al.</i>	623	18	
	A90	5,563,124	10-1996	Damien <i>et al.</i>	514	21	
	A91	5,510,121	04-1996	Rhee <i>et al.</i>	424	520	
	A92	5,393,739	02-1995	Bentz <i>et al.</i>	514	12	
	A93	5,368,858	11-1994	Hunziker	424	423	
	A94	5,356,630	10-1994	Laurencin <i>et al.</i>	424	426	
	A95	5,290,763	03-1994	Poser <i>et al.</i>	514	21	
	A96	5,270,300	12-1993	Hunziker	514	12	
	A97	5,206,023	04-1993	Hunziker	424	423	
	A98	4,952,404	08-1990	Vallee <i>et al.</i>	424	422	

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)		Atty. Docket No. 2013.013882	Serial No. 10/812,268
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Jeffrey W. Moehlenbruck and John P. Ranieri	
		Filing Date: March 29, 2004	Group: 1615
U.S. Patent Documents See Pages 1-2	Foreign Patent Documents See Pages 2-3	Other Art See Pages 3-4	

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
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	A105	4,620,327	11-1986	Caplan <i>et al.</i>	632	10	
	A106	4,619,989	10-1986	Urist	530	417	
	A107	4,596,574	06-1986	Urist	623	16	
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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
NT	B7	CN 1163780A	04-1997	China	A61K	38/18	Yes
	B8	EP 0896825 A1	02-1999	Europe	A61L	27/00	Yes
	B9	WO 92/09697	06-1992	PCT	C12P	21/00	Yes
	B10	WO 95/13767	05-1995	PCT	A61F	2/28	Yes
	B11	WO 96/41818	12-1996	PCT	C08B	37/08	Yes
	B12	WO 98/35653	08-1998	PCT	A61K	9/14	Yes


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
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Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B13	WO 99/08728	02-1999	PCT	A61L	27/00	Yes
	B14	WO 00/48550	08-2000	PCT	A61K		Yes

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	C51	Chen <i>et al.</i> , "Streaming potentials during the confined compression creep test of normal and proteoglycan-depleted cartilage," <i>Ann. Biomed. Eng.</i> , 25:269-77, 1997.
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	C53	de Groot <i>et al.</i> , "Meniscal tissue regeneration in porous 50/50 copoly(L-lactide/epsilon-caprolactone) implants," <i>Biomaterials</i> , 18:613-22, 1997.
	C54	Fidman <i>et al.</i> , "Material properties and structure-function relationships in the menisci," <i>Clin. Orthoped.</i> , 252:19-31, 1990.
	C55	Hashimoto <i>et al.</i> , "Meniscal repair using fibrin sealant and endothelial cell growth factor. An experimental study in dogs," <i>Am. J. Sports Med.</i> , 20:537-41, 1992.
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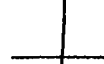
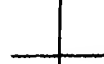
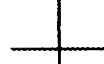


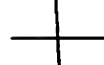


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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C58	Kempson <i>et al.</i> , "The tensile properties of the cartilage of human femoral condyles related to the content of collagen and glycosaminoglycans," <i>Biochim. Biophys. Acta.</i> , 297:456-72, 1973.
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	C60	Lucas <i>et al.</i> , "Ectopic induction of cartilage and bone by water-soluble proteins from bovine using a collagenous delivery vehicle," <i>J. Biomed. Mater. Res.</i> , 23:23-39, 1989.
	C61	McDevitt and Webber, "The Ultrastructure and Biochemistry of Meniscal Cartilage," <i>Clin. Orthop.</i> , 252:8-18, 1990.
	C62	Riesle <i>et al.</i> , "Collagen in tissue-engineered cartilage: types, structure, and crosslinks," <i>J. Cell Biochem.</i> , 71:313-27, 1998.
	C63	Sakaguchi <i>et al.</i> , "A Combination of EGF and IGF-1 Accelerates the Progression of Meiosis in Bovine Follicular Oocytes In Vitro and Fetal Calf Serum Neutralizes the Acceleration Effect," <i>Theriogenology</i> , 54:1327-42, 2000.
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	C65	Schor <i>et al.</i> , "Motogenic activity of IGD-containing synthetic peptides," <i>J. Cell Science</i> , 112:3879-88, 1999.
	C66	Spilker <i>et al.</i> , "A transversely isotropic biphasic finite element model of the meniscus," <i>J. Biomech.</i> , 25:1027-45, 1992.
	C67	Yonggang <i>et al.</i> , "Percutaneous injection of bone morphogenetic protein and polyvinyl pyrrolidone composite," <i>J. Xi'an Medical University</i> , 22:132-33, 2001.

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